

MSA Compatible 1000Base Fiber Channel SFP Modules



Applications

- Gigabit Ethernet Switches and Routers
- Fiber Channel Switch Infrastructure
- xDSL Applications
- Metro Edge Switching

Features

- Hot-Pluggable SFP Footprint Optical Transceiver
- Digital Diagnostic Function
- Class 1 Laser International Safety Standard IEC-60825 Compliant
- Compatible with SFP Multi-Sourcing Agreement (MSA)

Specifications

Standards	IEEE 802.3
Dimensions	Width: 0.52" [13 mm] Depth: 2.18" [55 mm] Height: 0.33" [8 mm]
Power	3.3V
Power Consumption	0.66 Watts
Environment	0°C to 70°C
	TN-SFP-LX1T: -40°C to 85°C TN-SFP-LXB11T: -40°C to 85°C TN-SFP-LXB12T: -40°C to 85°C TN-SFP-LXB21T: -40°C to 85°C TN-SFP-LXB22T: -40°C to 85°C
Compliance	IEC-60825; FDA 21; CFR 1040.10 and 1040.11
Warranty	Lifetime

Note: Per Cisco Systems' literature, the Cisco switches with SFP slots do not accept modules other than Cisco's own SFPs. The Cisco switch identifies the manufacturer ID along with the part number and blocks operations to this port for non-Cisco interfaces.

Transition Networks' SFP units fully comply with Multi-Sourcing Agreement (MSA). This compliance allows Transition Networks' SFP modules to be used on other MSA-compliant SFP platforms without any problems.

Ordering Information

Duplex

TN-SFP-T-MG

10/100/1000BASE-T (RJ-45)
[100 m/328 ft.]

TN-SFP-SX (model without DMI)

TN-SFP-SXD (model with DMI)
1000BASE-SX 850nm multimode (LC)
[62.5/125 µm: 220 m/722 ft.]
Link Budget: 8.0 dB
[50/125 µm: 550 m/1804 ft.]
Link Budget: 8.0 dB

TN-SFP-ESX5

1000BASE-SX 1300nm Ext. MM (LC)
[50/125 µm fiber only:
up to 2 km/1.2 mi.] Link Budget: 8.0 dB

TN-SFP-ESX6

1000BASE-SX 1300nm Ext. MM (LC)
[62.5/125 µm fiber only:
up to 2 km/1.2 mi.] Link Budget: 8.0 dB

TN-SFP-LX1 (model with DMI)

TN-SFP-ELX1 (model without DMI)
1000BASE-LX 1310nm single mode (LC)
[10 km/6.2 mi.] Link Budget: 11.5 dB

TN-SFP-LX3

1000BASE-LX 1310nm single mode (LC)
[30 km/18.6 mi.] Link Budget: 19.0 dB

TN-SFP-LX5

1000BASE-LX 1550nm single mode (LC)
[50 km/31.1 mi.] Link Budget: 19.0 dB

TN-SFP-LX8

1000BASE-LX 1550nm single mode (LC)
[80 km/49.7 mi.] Link Budget: 24.0 dB

TN-SFP-LX12

1000BASE-LX 1550nm single mode (LC)
[120 km/74.6 mi.] Link Budget: 32.0 dB

TN-SFP-LX16

1000BASE-LX 1550nm single mode (LC)
[160 km/99.4 mi.] Link Budget: 37.0 dB

TN-SFP-LX20

1000BASE-LX 1550 nm (LC) SM
[200 km/124.3 mi.] Link Budget: 41.0 dB

TN-SFP-FC2XM

OC-48/STM-16/Fiber Channel 1x/2x
/1000BASE-SX 850nm (LC) MM
[62.5/125 µm: 150 m/492 ft.]*
Link Budget: 6.0 dB
[50/125 µm: 300 m/984 ft.]*
Link Budget: 6.0 dB

TN-SFP-FC2XS2

Fiber Channel 2x/1x/OC-48/STM-16/
1000BASE-LX 1310nm single mode (LC)
[2 km/1.2 mi.] Link Budget: 8.5 dB

TN-SFP-FC2XS15

Fiber Channel 2x/1x/OC-48/STM-
16/1000BASE-LX 1310nm single mode (LC)
[15 km/9.3 mi.] Link Budget: 13.0 dB

TN-SFP-FC2XS40

Fiber Channel 2x/1x/OC-48/STM-16/
1000BASE-LX 1310nm single mode (LC)
[40 km/24.9 mi.] Link Budget: 26.0 dB

Extended Operating Temperature
-40°C to +85°C

TN-SFP-LX1T

1000BASE-LX 1310nm single mode (LC)
[10 km/6.2 mi.] Link Budget: 11.5 dB

Simplex

TN-SFP-SXB1

1000BASE-SX 1310nm TX/1550nm RX MM (LC)
[500 m/1640 ft.] Link Budget: 7.0 dB

TN-SFP-SXB2

1000BASE-SX 1550nm TX/1310nm RX MM (LC)
[500 m/1640 ft.] Link Budget: 7.0 dB

TN-SFP-BXU2

1000BASE-BX 1310nm TX/1490nm RX SM (LC)
[20 km/12.4 mi.] Link Budget: 14.0 dB

TN-SFP-BXD2

1000BASE-BX 1490nm TX/1310nm RX SM (LC)
[20 km/12.4 mi.] Link Budget: 14.0 dB

TN-SFP-LXB11

1000BASE-LX 1310nm TX/1550nm RX SM (LC)
[10 km/6.2 mi.] Link Budget: 11.0 dB

TN-SFP-LXB12

1000BASE-LX 1550nm TX/1310nm RX SM (LC)
[10 km/6.2 mi.] Link Budget: 11.0 dB

TN-SFP-LXB21

1000BASE-LX 1310nm TX/1550nm RX SM (LC)
[20 km/12.4 mi.] Link Budget: 14.0 dB

TN-SFP-LXB22

1000BASE-LX 1550nm TX/1310nm RX SM (LC)
[20 km/12.4 mi.] Link Budget: 14.0 dB

TN-SFP-LXB41

1000BASE-LX 1310nm TX/1550nm RX SM (LC)
[40 km/24.9 mi.] Link Budget: 20.0 dB

TN-SFP-LXB42

1000BASE-LX 1550nm TX/1310nm RX SM (LC)
[40 km/24.9 mi.] Link Budget: 20.0 dB

TN-SFP-LXB61

1000BASE-LX 1310nm TX/1550nm RX SM (LC)
[60 km/37.3 mi.] Link Budget: 23.0 dB

TN-SFP-LXB62

1000BASE-LX 1550nm TX/1310nm RX SM (LC)
[60 km/37.3 mi.] Link Budget: 23.0 dB

TN-SFP-LXB81

1000BASE-LX 1510nm TX/1590nm RX SM (LC)
[80 km/49.7 mi.] Link Budget: 24.0 dB

TN-SFP-LXB82

1000BASE-LX 1590nm TX/1510nm RX SM (LC)
[80 km/49.7 mi.] Link Budget: 24.0 dB

TN-SFP-LXB161

1000BASE-LX 1510nm TX/1590nm RX SM (LC)
[160 km/99.4 mi.] Link Budget: 37.0 dB

TN-SFP-LXB162

1000BASE-LX 1590nm TX/1510nm RX SM (LC)
[160 km/99.4 mi.] Link Budget: 37.0 dB

Extended Operating Temperature
-40°C to +85°C

TN-SFP-LXB11T

1000BASE-LX 1310nm TX/1550nm RX SM (LC)
[10 km/6.2 mi.] Link Budget: 11.0 dB

TN-SFP-LXB12T

1000BASE-LX 1550nm TX/1310nm RX SM (LC)
[10 km/6.2 mi.] Link Budget: 11.0 dB

TN-SFP-LXB21T

1000BASE-LX 1310nm TX/1550nm RX SM (LC)
[20 km/12.4 mi.] Link Budget: 14.0 dB

TN-SFP-LXB22T

1000BASE-LX 1550nm TX/1310nm RX SM (LC)
[20 km/12.4 mi.] Link Budget: 14.0 dB